

Product datasheet for **RG215811**

Calpain 3 (CAPN3) (NM_212464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 3 (CAPN3) (NM_212464) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAPN3
Synonyms:	CANP3; CANPL3; LGMD2; LGMD2A; MGC4403; MGC10767; MGC11121; MGC14344; nCL-1; p94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215811 representing NM_212464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGGCAAATCAGTTTAAAAACACAACTACCCAACAGAAAAATGAAATTTGCGAGAATCCCCGAT
TTATCATTGATGGAGCCAACAGAACTGACATCTGTCAAGGAGAGCTAGGGGACTGCTGGTTTCTCGCAGC
CATTGCCTGCCTGACCTGAACCAGCACCTTCTTTCCGAGTCATACCCCATGATCAAAGTTTCATCGAA
AACTACGCAGGGATCTTCCACTTCCAGTCTGGCGCTATGGAGAGTGGTGGACGTGTTATAGATGACT
GCCTGCCAACGTACAACAATCAACTGGTTTTCCAAAGTCCAACCACCGCAATGAGTTCTGGAGTGTCT
GCTGGAGAAGGCTTATGCTAAGCTCCATGGTTCCTACGAAGCTCTGAAAGGTGGGAACACCACAGAGGCC
ATGGAGGACTTCACAGGAGGGTGGCAGAGTTTTTTGAGATCAGGGATGCTCCTAGTGACATGTACAAGA
TCATGAAGAAAGCCATCGAGAGAGGCTCCCTCATGGGCTGCTCCATTGATGATGGCACGAACATGACCTA
TGGAACTCTCCTTCTGGTCTGAACATGGGGGAGTTGATTGCACGGATGGTAAGGAATATGGATAACTCA
CTGCTCCAGGACTCAGACCTCGACCCAGAGGCTCAGATGAAAGACCGACCCGGACAATCATTCCGGTTC
AGTATGAGACAAGAAATGGCTGCGGGCTGGTCAGAGGTCACGCCTACTCTGTACGGGGCTGGATGAGGT
CCC GTTCAAAGGTGAGAAAGTGAAGCTGGTGGCTGCGGAATCCGTGGGGCCAGGTGGAGTGAACGGT
TCTTGGAGTGATAGATGGAAGGACTGGAGCTTTGTGACAAAGATGAGAAGGCCCGTCTGCAGCACCAGG
TCACTGAGGATGGAGAGTTCTGGATGTCCTATGAGGATTCATCTACCATTTACAAAAGTTGGAGATCTG
CAACCTCACGGCCGATGCTCTGCAGTCTGACAAGCTTCAGACCTGGACAGTGTCTGTGAACGAGGGCCGC
TGGGTACGGGGTGTCTGCGGAGGCTGCCGCAACTTCCAGATACTTTCTGGACCAACCTCAGTACC
GTCTGAAGCTCCTGGAGGAGGACGATGACCCTGATGACTCGGAGGTGATTTGCAGCTTCTGGTGGCCCT
GATGCAGAAGAACCGGCCGAAGGACCGGAAGCTAGGGGCCAGTCTCTTACCATTGGCTTCGCCATCTAC
GAGGTTCCCAAAGAGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215811 representing NM_212464
 Red=Cloning site Green=Tags(s)

MSWQISLKTQTTQKNEICENPRFIIDGANRTDICOQELGDCWFLAAIACLTNLQHLLFRVIPHDQSFIE
 NYAGIFHFQFWRYGEWVDVVIDDCLPTYNNQLVFTKSNHRNEFWALLEKAYAKLHGSYEALKGGNTTEA
 MEDFTGGVAEFFEIRDAPSDMYKIMKKAIERGSLMGCSIDDGTNMTYGTSPSGLNMGELIARMVRNMDNS
 LLQSDLDPRGSDERPRTIIPVQYETRMACGLVRGHAYSVTGLDEVFPFKGEKVKLVRLRNPWGQVEWNG
 SWSDRWKDWFSVDKDEKARLQHQTVEDGEFWMSYEDFIYHFTKLEICNLADALQSDKLQWTWTVSNEGR
 WVRGCSAGGCRNFPDFTWNPQYRLKLLLEEDDDPDDSEVICSFLVALMQNRRKDRKLGASLFTIGFAIY
 EVPKEV

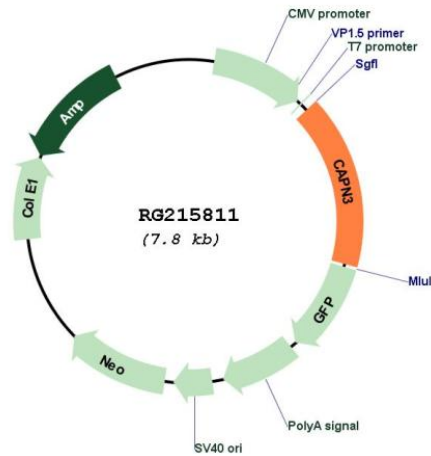
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_212464

ORF Size:	1278 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_212464.1 , NP_997629.1
RefSeq Size:	3901 bp
RefSeq ORF:	1280 bp
Locus ID:	825
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protease
Gene Summary:	Calpain, a heterodimer consisting of a large and a small subunit, is a major intracellular protease, although its function has not been well established. This gene encodes a muscle-specific member of the calpain large subunit family that specifically binds to titin. Mutations in this gene are associated with limb-girdle muscular dystrophies type 2A. Alternate promoters and alternative splicing result in multiple transcript variants encoding different isoforms and some variants are ubiquitously expressed. [provided by RefSeq, Jul 2008]